

MARY E. WARD
Counsel-Research and Development

Winston-Salem, NC 27102 919-741-5376 Fax 919-741-3763

April 19, 1996

Debra Janes
Occupational Safety and Health Administration
U.S. Department of Labor
Room N-3647
200 Constitution Avenue, N.W.
Washington, D.C. 20210

| • | , – | | | |
|-------|------|-----------|------|--|
| OSHA | | | | |
| DOCKE | T OF | FICE | :R | |
| DATE. | APR | <u>23</u> | 1996 | |
| TIME | | | | |

1.543

Re: Recently published information on Indoor Air Quality

Dear Debra:

R. J. Reynolds hereby submits new information that is relevant to OSHA's rulemaking on Indoor Air Quality. Below are discussions of the implications of this information for the rulemaking. R.J. Reynolds requests that this letter, including these discussions, be entered into the record.

"Smoking Banned in Most Workplaces, Survey Shows," <u>Business & Legal Reports, Inc.</u>, 1996.

This report provides new information relevant to important issues in the rulemaking. First, under section 1(b) of Executive Order 12,866, OSHA must specifically demonstrate that private markets and public institutions have failed to address the workplace smoking issue. As we stated in our post-hearing brief, RJRT, 1996 [Ex. 535], the rulemaking record, including citations by OSHA, itself, indicates that the private market is addressing successfully the issue of workplace smoking. RJRT, 1996, [Ex. 535, V-18, 19].

The attached survey from Business & Legal Reports, Inc. further supports this contention. According to this most recent survey, approximately 96% of employers surveyed either banned smoking in offices or permitted smoking only in designated areas (75% banned smoking, 21% permitted smoking only in designated areas). With respect to plant areas, 91% either banned smoking or permitted smoking only in designated areas (62% banned smoking, 29% permitted smoking only in designated areas).

"We work for smokers."

Debra Janes Page 2

The fact that most companies have already addressed workplace smoking strongly rebuts OSHA's assertion of market failure. As the record indicates, clearly, the market has not failed, and thus, OSHA's Proposed Rule is neither "reasonably necessary nor appropriate."

Second, OSHA must take this data into account when assessing current occupational exposures to ETS. In the Secretary of Labor's recent brief to the U.S. Court of Appeals for the District of Columbia Circuit, the Secretary asserted that "assessing the levels of ETS currently present in workplaces is one novel technological issue that must be resolved in this proceeding." The Secretary of Labor's Response to ASH's Petition for Mandamus at p. 9, fn. 3, ASH v. OSHA (D.C. Cir. 1996), No. 95-1615.

Moreover, as we discussed in our post hearing brief, RJRT, 1996, [Ex. 535, II-89 to II-94], present workplace exposures are significantly lower than in the past. OSHA must account for this decrease in smoker prevalence. In its Notice of Proposed Rulemaking, OSHA estimated that more than 74.2 million nonsmoking adults in the workforce would be covered by its proposed rule. 59 Fed. Reg. 15995. Yet, OSHA also estimated that more than 74 million nonsmoking American workers are exposed to ETS in their places of employment. 59 Fed. Reg. 16007. Clearly, this latter estimate is based on evidence that has been superseded and must be adjusted. Thus, data such as the above survey are essential for OSHA's calculations regarding current occupational exposures.

"First Wave Of Md. Smoking Ban Fines Leaves Businesses Fuming," <u>Indoor Air Review</u> 5(12): 1, 10; February, 1996

Under the Unfunded Mandates Reform Act of 1995, 2 U.S.C. § 1501 et seq. ("UMRA"), OSHA is required to take several steps to minimize any adverse effects that its proposed workplace smoking ban will have on the 23 states which have chosen to adopt their own safety and health programs in compliance with Section 18(c) of the OSH Act. 29 U.S.C. § 667(c)(2). Among other things, OSHA's cost/benefit calculations must include an assessment of the enforcement costs that would be placed on each of these state programs.

The attached article, "First Wave Of Md. Smoking Ban Fines Leaves Businesses Fuming," Indoor Air Review 5(12): 1, 10; February, 1996, discusses the impact of the Maryland Department of Labor workplace smoking ban. In this article, Ileana C. O'Brien, deputy commissioner of labor and industry, concedes that, "[i]t would be practically impossible for the department to follow up on every consumer complaint with an inspection. There just isn't enough time."

OSHA must recognize that many states have limited inspection resources. Enforcement of a workplace smoking regulation would add to the already enormous burden placed on state inspectors and would detract from the inspectors' abilities to address serious workplace safety and

Debra Janes Page 3

health matters.

Moreover, at the federal level, the OSH Act requires OSHA to respond to all complaints with an inspection, if the Secretary has reasonable grounds to believe that a violation of an OSHA standard exists. 29 U.S.C. § 657(f)(1). Thus, federal OSHA would have no option but to follow-up on every complaint with an inspection. Because the OSH Act requires OSHA to inspect all complaints, a federal smoking ban would cause federal inspection resources to be diverted away from all other matters.

Ogden, Michael W, "Occupational Exposure to Environmental Tobacco Smoke," <u>JAMA</u>. 1996; 275(6): 956-960.

The attached published letter by Dr. Michael Ogden explains one of the major flaws in Dr. Hammond's recent article on occupational exposure to ETS, Hammond, S.K., Sorensen, G., Youngstrom, R. and Ockene, J.K., "Occupational Exposure to Environmental Tobacco Smoke," JAMA. 1995;274:956-960. As stated by Dr. Ogden, Hammond improperly calculated 7 days of nicotine exposure by dividing the exposure level by 45 hours instead of 168 hours. This error greatly increases the estimated levels of exposure. If Hammond had used the proper calculations, her estimated exposure levels would have been substantially lower.

We appreciate the opportunity to provide this new information to OSHA.

Truly yours,

Mary E. Ward (rdk)

1111

cc: Elaine Bynum, OSHA Docket Office (w/attachments)
Susan Sherman (w/attachments)

Occupational Exposure to Environmental Tobacco Smoke

To the Editor .- The article by Dr Hammond and colleagues! appears to contain a serious error in data calculation. The authors state that passive monitors for nicotine were exposed for "I week." Assuming this means 7 days, the monitors were exposed for a period of 168 hours. However, it appears that the authors used only 45 hours in the calculation of airborne nicotine concentration (with the possible exception of samples acquired at "fire stations"). If so, correcting this miscalculation significantly alters the conclusions with respect to potential worker risk as stated in their article and in the accompanying American Medical Association news release.

All official analysis methods of which I am aware (National Institute for Occupational Safety and Health, Occupational Safety and Health Administration, Environmental Protection Agency, American Society for Testing and Materials, International Standards Organization, Association of Official Analytical Chemists, etc) require that airborne concentration be calculated using the total air volume sampled. The justification by Hammond et al for their unorthodox data treatment (using only 45 of the 168 hours) is that "smoking was assumed to be taking place for 9 hours a day on each workday." However, it has been known for nearly 10 years that nicotine concentrations do not decay to zero quickly in the absence of smoking, whereas other measured components of environmental tobacco smoke (ETS) do.2 For example, it has been demonstrated that nicotine desorbing from interior surfaces and cigarette butts can result in significant airborne levels in the absence of smoking in a well-ventilated, grounded aircraft.3 In that study, average nicotine concentrations were found to be 6.0 µg/m³ for an overnight, 8-hour sample. Further, it has been shown that nicotine adsorbs onto the outside of the passive monitor housings used by Hammond et al and continues to be sampled in the absence of other sources of nicotine.4

Therefore, even if no smoking occurred "after hours" in the workplaces studied by Hammond et al and even if the workplaces were unoccupied after "normal" business hours (ie, no overtime, additional workshifts, or cleaning crews), it is incontrovertible that nicotine would continue to be collected by the passive monitors. Accordingly, the fill sampling time must be used in calculating airborne nicotine concentrations. It appears that the concentrations reported by Hammond et al must be divided by 3.7 (168/45) to yield the actual concentrations in the workplaces studied. When calculated correctly, the average concentrations that result for the selected workplaces studied by Hammond et al become more consistent with the personal exposures of workers in more typical workplaces found in other studies in the 1990s.

The pertinent issue in occupational exposure assessment is the actual amount of exposure (as determined by personal monitoring) that the worker receives at work, not the inappropriately adjusted weeklong concentration obtained from stationary air sampling during a time in which the worker is mostly absent. This issue can be resolved by relevant experimental investigations and objective data evaluations. Unfortunately, the article by Hammond et al does not appear to meet either of these criteria.

Michael W. Ogden, PhD R. J. Reynolds Tobacco Co Winston-Salem, NC

Edited by Margaret A. Winker, MD. Senior Editor, and Phil B. Fontanarosa, MD.

Hammond SK, Serenson G, Youngstrom R, Ockene JK. Occupational ex-environmental tobacce smale. JAMA 1995-274-964-995.
 Nelson PR, Heavner DL, Celle BB, Maiolo KC, Ogden MW. Effect of vo.

ampling time on environmental tobacco amob tol. 1982:84:1986-1986. Idea PR. Heavner DL. Oldaker GB III. Prob

stal tobacco smoke marker. Is: Money : Environmental Protection Assected tar. In: Monouverent of Poss en ction Aponcy/Air and Waste Mon m. Philipburgh, Ps: Air and Wast agement Association Internation Management Association: 1980: nt Association International Sympor ement Association: 1990:560-566. Ion MW, Maiolo KG. Comparative evalu

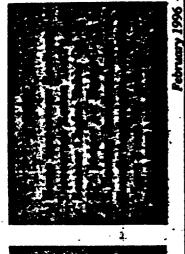
— ogues at W. Raisto KC. Comparative evaluation of diffusive and active sampling systems for determining airborne aicetine and 3-ethenylpyridine. Excess Sci Technol. 1982-98:1286-1234.

5. Ogien MW, Davis RA, Maiole KC, et al. Multiple measures of personal ETS exposure in a population-based survey of aonsmoking women in Columbus. Ohio. In: Indian Air V3—Proceedings of the 6th International Conference on Indoor Air Quality and Climate. Helainki. Finland: Indoor Air Climate. Helainki. Finland: Indoor Air Climate. uality and Climate. Helanki, Finland: Indoor Air 36; 1953.1:523-528.

1543A -



· 教育の日本の日本の教育を 一方の 日本 という



Volume 5, No. 12, \$10.00

An Independent Trade Newspaper

Building Air Quality A Dodfin

Alliance Revived

Protection Agency's (EPA) Building Air ing revived from its ashes by the Unichia which is sponsoring a new program Quality Alliance has rison again. It is beversity City Science Center in Philadel Like a phoenix, the Environmenta petterned closely after the alliance.

The Science Center approach, as in the EPA plan, is to provide building owners and managers with a set of guiding principles to help in developing operation and mainsepance action plans to preserve or achieve acceptable indoor air quality.

to recognize buildings where a proactive The program sponsored by the Science Center, a consortium of 28 educational and scientific institutions which openent, technology transfer and techniconducts and manages research, develit will offer a private-sector mechanism cal training, will not be a certifying body IAO plan is in place

entered describe of Environmental Hy-Members of the Science Center felt when it was canceled, Frank M. Gallo, vice president in charge of the Indoor Air Quality Department at LZA Technology tion of Pederal Occupational Health, speakeaded a project to get the new althe EPA effort had sound principles, and in Trumbull, Conn., and Frank A. Lewis

Restaurant Association Claims Fines Contradict Recent Legislation t Wave Of Md. Smoking Ban Fines Leaves Businesses Fun

ment of Labor, Licensing and Regulation. Pull enforcement of the rep Gov. Parris N. Glendening had sought to ben smoking in virtually all indoor work-Maryland's Department of Labor, Licensing and Regulation issued the first ci-By Tim Hickey

places, including restaurants and bars. However, in a compromise, he and legislators closed, separately ventilated rooms desigagreed to allow smoking in bars and seating areas adjacent to them, as well as in ennated for smoking by employees or by restaurant patrons compliance with the state's new workplace lations last month to five businesses for nonimoking ban. The employers' fines ranged

The regulation has been in effect since last March. During the first six months, the department focused attention on providing nformation and education to employers

Employee complaints led to the fines

from \$225 to as much as \$1,350.

and citations for the initial five employ-

ers, said Karen Napolitano, director of public information for the state Depart-

the end of September.

Compliance

minder to employers to ensure they are i labor and industry, recently issued a re compliance with the Workplace Smokin John P. O'Comor, commissioner of sta

"We [Labor and Industry] are pleaser with the level of compliance seen in man sectors," O'Connor said. "However, the d

See Smaking Ben, page 10

NADCA Certifies First Air Cleaning Specialists

Some Criticize Test As 'Gimmick' To Boost Membership In Group

90 percent of the candidates tested received a passing grade from In its inaugural certification exam given in November, nearly the National Air Duct Cleaners Association (NADCA) By Tim Hickey

designated "Air Cleaning Specialists," and may use the creden-Duct Cleaning The organization reported that 135 candidates out of 151 received a "passing grade. The new certified members will be

demand for HVAC system cleaning services has made this certipublic awareness of indoor air quality issues and a corresponding ognize competent, qualified duct cleaning specialists. Increasis lication necessary.

Credentialing Process

But the legitimacy of an accreditation process, created by and for the industry has met with both praise and criticism.

Ahry ... unid Russell Kulp, a ventilation reserveder at MA's Be-serving Triangle Institute in North Cumbins, Apprehending man-portant in the duct cleaning busingss. TIA is involved with it be-"I don't know the specifics of the exam, but I think it is a schut Triangle Institute in North Cumline, "I

cause the claims many contractors makified to

Smoking Ban

4Construed from page 1

partment is concerned that in some instances employers have not ensured implementation of the smoking prohibition ain their workplace."

The official complaint registration procedure the department follows is to send a form to the employee making the complaint. The employee is supposed to fill out the form and send it back to the department. Officials may then inspect the

premises of the named employer.

State labor officials will pursue complaints filed by customers, but these complaints are handled by writing a letter to the business to inform them of the existing rules.

"It would be practically impossible for the department to follow up every consumer complaint with an inspection," said Heana C. O'Brien, deputy commissioner of labor and industry. "There just isn't

enough time."

The fines were based on a formula involving eight factors: the history of the employers violations; the size of the business; gravity of the violation; good faith of the employers in complying once they were found in violation; injury and illness rate of employees; the existence and quality of a safety and training program; actual harm to human health including injury and illness; and the extent of recurring violations.

Government At Its Worst

But according to Bob A. Lecos, president of the Restaurant Association of Metropolitan Washington, the fines were "levied under a set of assumptions wholly contradicted by the written word of the legislation."

The regulations state clearly the only violations subject to investigation are from employees affected by non-compliance with the workplace ban, Lecos said, adding that customer claims and violations were not under the venue of this law.

"It was an employee-workplace oriented regulation, yet fully a third of the first set of 154 complaints came from the activists from the umbrella group Coalition for Smoke-Free Maryland Workplaces," Lecos said. "So until such time

Commentary

The second of th

Maryland Occupational Salety and Health [MOSH] can clearly demonstrate it has filtered out any inconsistencies in the particular wording in the law, it is not appropriate for any establishment to get fined."

He added that he believed the "regulation was promulgated by a regulatory agency, created by a regulatory agency, and when it would have been legislatively overridden because of its overbeating impact on Maryland businesses, the regulatory agency agreed to amend its intentions. However, the ink hadn't dried on the signed agreement before the agency was enforcing the law in violation of the regulation. It's government it its worst."

Citizen Complaints

Responding to the Restaurant Association's criticism, O'Brien said that ini-

Microbial Analysis

- Fungal Identification to Genus
- Grouping of Aspergillus species

Gram Stain and Morphological

For Just \$72 a Year You Can Get All Maryland Occupational Safety and Health [MOSH] can clearly demonstrate it has filtered out any inconsistencies in the particular wording in the law, it is not appropriate for any establishment to get fined."

He added that he believed the "regulation was promulgated by a regulatory agency, created by a regulatory agency, and when it would have been legislatively overridden because of its overbearing impact on Maryland businesses, the regplatory agency agreed to amend its intentions. However, the ink hadn't dried on the signed agreement before the agency was enforcing the law in violation of the regulation. It's government at its

Citizen Complaints

Responding to the Restaurant Association's criticism, O'Brien said that inistally labor and industry stated it was not in the business of resolving issues between customers and establishments.

The customer can write off a letter to the commissioner's office," O'Brien said. "The commissioner's office then writes a letter to the establishment, giving the establishment a copy of the law and asking it to please make sure it is in compliance."

· She said the Restaurant Association is not comfortable with this process because it believes it should only be driven by employee complaints.

"What the association would have us do is ignore the complaints of the citizens of Maryland," she said. "The language in the law passed by the General Assembly specifically relating to smoking is silent to what kinds of complaints we llabor and industry] can respond to."

MOSH Act

The regulation that was accepted was adopted into the whole of MOSH Act, which is where the provisions for how to inspect, cite, fine and appeal all were established.

"Under the MOSH Act, we [labor and industry] have specific authority to reapond to complaints that arise from employee complaints," O'Brien said. "The law does not preclude us from doing inspections resulting from other types of complaints. However, we have to have substantial evidence or reasonable evidence that a violation is occurring. So the law certainly provides that we can consider sources of information, other than employee complaints, that are indicative of a problem."

She said the focus of the Department of Labor and Industry is not penalizing, but educating Maryland businesses. The department realizes there is some "genuine confusion" with portions of the law. The department worked with the Restaurant Association, which sent out 10,000 notices to their members to attend educational sessions around the state, to spread the word, but only 100 people deli had made the whole workplace showed up at the state-wide sessions.

. There are still some gray areas in the regulation, and honest mistakes will be made, but the most important factor is education and awareness, O'Brien said.

Fines Levied

The employers penalized for allowing workers to smoke indoors include Brooklyn Cycle World of Baltimore, fined the largest amount, \$1,350, and Shoney's, in Westminster, fined \$1,300 for "not easuring there was no smoking in an eaclosed workplace." Kelly's Deli in Rockville was fined \$225, representing a 50 percent reduction for "effective abatement during the inspection." The Baltimore Housing Partnership Inc. was fined \$875, and B&K Distributors was fined \$375.

The manager of Kelly's Deli successfully appealed the remaining \$225 fine on the grounds his establishment exceeded the regulation's requirements by having separate ventilation and a segregated smoking area.

"This new regulation is going to harm more people than it helps," the deli's manager said. "Prior to the regulation, a separate ventilation system was required. However, it isn't any longer."

The manager of Kelly's Deli believed he had attempted to comply with the law and that he was well within the scope of complying, O'Brien said.

Prior to the inspection, Kelly's manager moved two tables over into a separate area, calling it a bar area and allowing smoking only in this section, O'Brien said. Because the deli had an "on-or-off" liquor license, the manger thought it was allowed to designate such a specific "bar

"We have kept the citation on the books, but we have rescinded the penalty," O'Brien said.

There are a number of appeal processes employers can pursue. One form of appeal is the informal conference, as was used with Kelly's Deli, O'Brien said, in which the manager or owner meets with the supervisor in their area, providing information either verified or disputed by the inspector. Following the meeting, the commissioner reaches a decision.

In this particular instance, because the smoke-free, it seemed the "best approach" was not to fine them. O'Brien

The state will continue to enforce the law and will soon levy more fines, O'Brien said.

 Π

What to Do about Personnel Problems • Special Report

Business & Legal Reports, Inc. • 39 Academy Street: • Madison, C1 1044-1451.3 • 0203/245-7448

Smoking Banned in Most Workplaces, Survey Shows

Three out of four employers prohibit smoking in all office areas, and over 60 percent have banned smoking in plant areas, according to a recent survey of 2,000 employers conducted by Business and Legal Reports, Inc. As the graph below indicates, employers in the health care industry have the most restrictive policies, while manufacturers and retail/wholesale firms remain somewhat more "smoker-friendly" than employers in other industries. However, even in manufacturing, where toleration is highest, some 55 percent of employers report a total ban on smoking in the shop.

Few employers restrict; moking in outdoor areas except in the education acctor, in which some 38 percent of employers prohibit amoking altogether, even outdoors (see Table 3).

Regional differences few

There was little variation from one geographic area to another except in the Far West region (see Table 1 and Table 2), consisting mainly of employers in California, Oregon, and Washington. California and Washington have enacted rather stringent workplace amolding restrictions, thus accounting for the relatively high proportion of employers in this region that prohibit smoking.

Written policies common

Most employers now have a written policy covering smoking in the workplace (see Table 4), with written policies more common

among employers of more than 100 people than among smaller organizations. Not-for-profit firms are also somewhat more likely than for-profit companies to have a written smoking policy.

Cafeteria smoking on the way out?

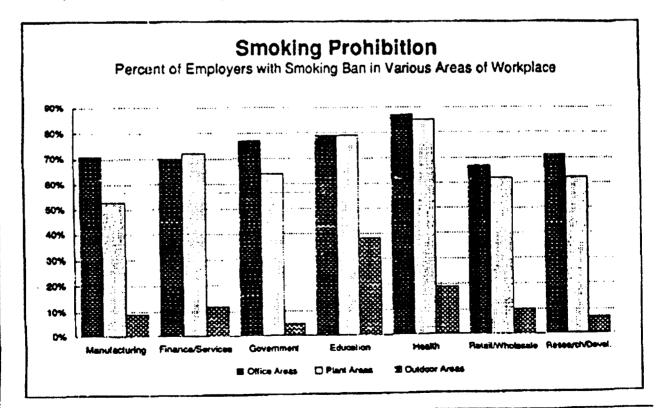
Only about one is seven employers permit smoking in lurch rooms. There was some variation from industry to industry in this measure, however, with manufacturers most likely to permit smoking in the cafeteria (23 percent) and health care and government employers least likely to allow it (2 percent and 5 percent, respectively).

Quit-smoking programs

A minority of employers is actively engaged in helping their workers give up the nasty bablt (see Table 5). Some 8 percent actually hold smoking custation classes, while 14 percent sponsor classes, and 17 percent pick up the tab for them.

Other smoking issues

Only about one in ten employers allow individuals to designate their own workspace as smoking/nonsmoking (see Table 6). Some 7 percent of the respondents reported creating new physical barriers or installing ventilation to accommodate anothers. A few employers (2 percent) refuse to hire smokers at all. seer



© 1996 Business & Lagul Reports, Inc.

Table 1: Smoking Restrictions: Offices
What smoking restrictions are in place for office areas?

Percent of Employers Reporting Specified Policy **Prohibited** Permitted Permissed Except in Designated Areas Except in Except in Number of Fire Hexand Totally Designated Classification Employers Prohiband Ares Areas All employers East Central region Far West region . Northeast/Middle Atlentic region Southern region Central/Rocky Mountain/Southwest region Small (fewer than 100 employees) Mid-sized (100-500 employees) Large (more than 500 employees) For profit Not for profit Public sector Private sector Manufacturing Finance/Services Government Education Health RetailWholosale Research & Development

Table 2: Smoking Restrictions: Plant Areas What smoking restrictions are in place for plant areas?

Percent of Employers Reporting Specified Policy **Prohibited** Permitted Except in Except in Except in Totally Prohibited Number of Designated Designated Fire Hazard Classification Employers Areas Aross Areas All employers East Central region Far West region Northeast/Middle Atlantic region Southern region Central/Rocky Mountain/Southwest region 29 34 Small (fewer than 100 employee's) Mid-sized (100-500 employees) R Large (more than 500 employees) For profit Not for profit 30 Public sector Private sector 23 30 21 13 Manufacturing Finance/Services Government Education Health RetailWholesale 38 Research & Development

Table 3: Smoking Restrictions: Outdoor Areas What smoking restrictions are in place for outdoor areas?

| • | | Percent of Employers Reporting Specified Policy | | | | | |
|---|------------------------|---|--|---|--|--|--|
| Classification | Number of Employers | Totally Prohibited | Prohibited Except in Designated Areas | Permitted Except in Designated Arges | Permitted Except in Fire Hazers Areas | | |
| All employers | 1313 | 12 | 44 | 7 | 37 | | |
| East Central region | 401 | 14 | 40 | 6 | 39 | | |
| Far West region | 97 | 10 | 47 | 8 | 34 | | |
| Northeast/Middle Atlantic region | 264 | 12 | 40 | 7 | 41 | | |
| Southern region | 442 | 10 | 48 | • | 36 | | |
| Central/Rocky Mountain/Southwest region | 85 | 7 | 54 | 12 | 41 36 27 | | |
| Small (fewer than 100 employees) | 378 | 12 | 36 | 7 | 45 | | |
| Mid-sized (100-500 employees) | 596 | 9 | 48 | 6 | 37 | | |
| Large (more than 500 employees) | 294 | 15 | 48 | 8 | 29 | | |
| For profit | 630 | • | 44 | 7 | 40 | | |
| Not for profit | 228 | 15 | 46 | 7 | 32 | | |
| Public sector | 246 | 13 | 39 | • | 38 | | |
| Private sector | 609 | 9 | 46 | 7 | 38 | | |
| Manufacturing | 494 | 9 | 44 | 4 | 43 | | |
| Finance/Services | 103 | 12 | 42 | 10 | 37 | | |
| Government | 65 | 5 | 40 | 12 | 43 | | |
| Education | 73 | 38 | 23 | 6 | 30 17 | | |
| Health | 161 | 19 | 58 | 6 | 17 | | |
| RetailWholesale | 90 | 10 | 43 | 8 | 39 | | |
| Research & Development | 15 | 7 | 33 | 7 | 53 | | |

Table 4: Smoking Policies

Does employer have a written smoking policy? In what areas of the workplace does employer's policy permit employees to smoke?

| may permit simpley season amone | | Percent With Written Policy | Percent of employers permitting emoloring in: | | | | | |
|---|------------------------|--------------------------------------|---|--------------------|-----------------|------------------|-----------------------------|--|
| Classification | Number of Employers | | Celetoria | Rest Room Areas | Office Areas | Meeting Rooms | Nonhazardous Plans Areas | |
| All employers | 2072 | 74 | 14 | 5 | 7 | 4 | 9 | |
| East Central region | 651 | 73 | 18 | 7 | 8 | 4 | ٥ | |
| Far West region | 148 | 71 | 3 | | 1 | | 3 | |
| Northeast/Middle Atlantic region | 453 | 78 | 13 | 4 | 7 | 4 | 10 | |
| Southern region | 682 | 76 | 14 | 5 | 10 | 6 | 10 | |
| Central/Rocky Mountain/Southwest region | 133 | 67 | 8 | 1 | 1 | 2 | 3 | |
| Small (fewer than 100 employees) | 669 | 62 | 12 | 6 ′ | 9 | 6 | | |
| Mid-sized (100-500 employees) | 924 | 79 | 15 | 6 | 8 | 5 | 10 | |
| Large (more than 500 employees) | 409 | 84 | 14 | 2 | 4 | 2 | 8 | |
| For profit | 966 | 72 | 17 | 6 | 8 | 5 | 10 | |
| Not for profit | 367 | 82 | 6 | 2 | 7 | 3 | 2 6 0 | |
| Public sector | 381 | 74 | 10 | 5 | 9 | 5 | 6 | |
| Private ecotor | 017 | 74 | 15 | 5 | 7 | 4 | D. | |
| Manufacturing | 724 | 73 | 23 | 7 | 9 | 5 | 17 | |
| Finance/Services | 216 | 75 | 15 | 5 | 8 | 6 | 2 | |
| Government | 112 | 76 | 5 | 3 | 8 | 3 | 2 3 3 | |
| Education | 103 | 92 | 10 | 2 | 7 | 1 | 3 | |
| Health | 245 | 79 | 2 | | 1 | | 1 | |
| Retail/Wholes ale | 140 | 69 | 10 | 8 | 12 | 8 | 9 | |
| Research & Development | 24 | 75 | 13 | • | 4 | | 4 | |

Special Report 3

Table 5: Smoking Cessation
What help does employer offer to employees who want to quit smoking?

| | Showbar of | Percent of employers offering specified type of smoking cessation help | | | | |
|---|------------------------|--|-----------------|--------------------|--|--|
| Classification | Number of Employers | Hold Classes | Sponeor Classes | Reimburse Expenses | | |
| All employers | 2101 | 8 | 14 | 17 | | |
| East Central region | 659 | 9 | 12 | 20 | | |
| Far West region | 149 | 5 | 11 | 13 | | |
| Northeast/Middle Atlantic region | 460 | 10 | 17 | 20 | | |
| Southern region | 693 | 8 | 14 | 14 | | |
| Central/Rocky Mountain/Southwest region | 134 | 7 | 13 | 14 | | |
| Small (fewer than 100 employees) | 682 | 3 | 7 | 12 | | |
| Mid-sized (100-500 employees) | 933 | 9 | 14 | 18 | | |
| Large (more than 500 employees) | 412 | 16 | 25 | 26 | | |
| For prolit | 978 | 7 | 13 | 19 | | |
| Not for profit | 373 | 12 | 16 | 13 | | |
| Public sector | 385 | 9 | 16 | 12 | | |
| Private sector | 959 | 8 | 12 | 19 | | |
| Manufacturing | 731 | 8 | 16 | 19 | | |
| Finance/Services | 217 | 11 | 11 | 26 | | |
| Government | 115 | 7 | 16 | 10 | | |
| Education | 103 | 17 | 15 | • | | |
| Health | 248 | 14 | 21 | 12 | | |
| Retall/Wholesale | 143 | 2 | 6 | 20 | | |
| Research & Development | 24 | | 8 | 17 | | |

Table 6: Other Smoking Issues

Has employer erected walls or added ventilation to accommodate nonsmokers? Does employer allow individuals to designate personal offices as smoking/nonsmoking? Does employer refuse to

| e smokers? | Number of Employers Responding | Percent Erecting Wate or Installing Ventilation | Number of Employers Responding | Percent Allowing Designation of Personal Office as Smoking/Nonemoking | Number of Employers Responding | Percen Reluen to Hin Smoke |
|---|--------------------------------------|--|--------------------------------------|---|--------------------------------------|-------------------------------------|
| All employers | 2101 | 7 | 2050 | 10 | 2063 | 2 |
| East Central region | 659 | 8 | 641 | 11 | 648 | 1 |
| Far West region | 149 | 1 | 147 | 2 | 146 | 2 |
| Northeast/Miodle Atlantic region | 460 | 8 | 448 | 11 | 447 | |
| Southern region | 693 | 6 | 676 | 11 | 686 | |
| Central/Rocky Mountain/Southwest region | 134 | 5 | 133 | 6 | 131 | |
| Small (fewer than 100 employees) | 882 | 5 | 665 | 10 | 671 | |
| Mid-sized (100-500 employees) | 933 | 8 | 914 | 11 | 913 | |
| Large (more than 500 employees) | 412 | 9 | 400 | • | 406 | |
| For profit | 978 | 9 | 955 | 11 | 962 | |
| Not for profit | 373 | 5 | 367 | 7 | 369 | |
| Public sector | 385 | 8 | 379 | 10 | 380 | |
| Private sector | 950 | 7 | 936 | 10 | 943 | |
| Manufacturing | 731 | 10 | 710 | 13 | 717 | |
| Finance/Services | 217 | 8 | 215 | 11 | 215 | |
| Government | 115 | 11 | 114 | 11 | 112 | |
| Education | 103 | 5 | 102 | 10 | 101 | |
| Health | 248 | 3 | 240 | 2 | 245 | |
| Retail/Wholes ale | 143 | 5 | 136 | 12 | 139 | |
| Research & Development | 24 | 21 | 24 | 8 | 24 | |

4 Special Report

6 1996 Business & Legal Reports, Inc.